Journal/ Transactions Artificial Intelligence 2018 - 2022	Year	Papers	Authors	Authors/paper	Papers/Author
IEEE Transactions on Medical Imaging	2018	889	5874		
	2019	967	8892		
	2020	1294	8568		
	2021	1439	11514		
	2022	1791	13277		
IEEE Transactions on Dielectrics and Electrical Insulation	2018	370	1610		
	2019	348	1827		
	2020	361	1875		
	2021	350	1820		
	2022	394	2105		
IEEE/ACM Transactions on Computational Biology and Bioinformatics	2018	218	967		
	2019	204	907		
	2020	213	864		
	2021	298	1326		
	2022	457	1976		
IEEE Transactions on Neural Networks and Learning Systems	2018	1039	3477		
	2019	1074	4467		
	2020	1782	6807		
	2021	2534	8767		
	2022	4842	19497		
IEEE Transactions on Neural Systems and Rehabilitation Engineering	2018	318	1551		
	2019	308	1743		
	2020	386	2099		
	2021	298	1776		
	2022	325	2294		

Nitin Sain

Electrical Engineer

I'm an undergraduate student of Electrical Engineering at Rajasthan Technical University, Kota. Proficient in C, C++ programming, data structure and algorithms, and web development. Looking forward to getting experience with versatile technical stacks and becoming a Full-Stack Developer. Passionate about implementing and launching new projects.

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Sikar, India

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github.com/Nitin326

EDUCATION

Bachelor of Technology
University Department of Rajasthan Technical University, Kota

07/2019 - Present *CGPA - 9.20*

Senior Secondary
Indira Bal Vidya Niketan Senior Secondary school, Sikar

07/2017 - 06/2018 *Percentage - 82%*

Secondary
Rawat Adarsh Vidya Mandir Secondary school, Sikar

07/2015 - 06/2016 *Percentage - 88.33%*

WORK EXPERIENCE

Summer Intern/Trainee
Kota Super Thermal Power Station

05/2022 - 07/2022 *Kota, Rajasthan*

Kota Super Thermal Power Station is the first coal based Electricity Generating Power Plant in Rajasthan.

Frontend Development Intern
KCTT Technology India Private Limited

09/2021 - 12/2021 *Kota, Rajasthan*

Tasks

- During this period worked on the projects with front-end development team.

Web Development and Design Intern
The Sparks Foundation

08/2021 - 09/2021 *Kota, Rajasthan*

Tasks

- Designed a website for donation and implemented a payment gateway system.

ACHIEVEMENTS

Girlscript Bilaspur (07/2020 - 07/2020)

Frontend Hackathon winner In this, I designed a food bakery website.

Best Volunteer (12/2020 - 12/2020)

Best Volunteer of Embedded workshop organised by Robtics Club.

Developer Days (01/2021 - 02/2021)

In Top Participant In a Challenging 2 months Competition.

SKILLS

C/C++ programming | Data Structures and Algorithms | Embedded C | Python | Node.js | React.js | Javascript | Mongodb | Circuit Designing | Matlab | HTML5 & CSS3 | Bootstrap

PERSONAL PROJECTS

Shopping Cart (05/2022 - 06/2022)

- This is an E-commerce website where the user can add items and filter out the items in the cart. Technologies used to develop it are React & Redux.

Shikshak-Shaakha (10/2021 - 11/2021)

- This is a web-based project to help the students and teachers' community. It provides a medium to interact students and teachers. The technology used to develop it is Node.js, Express.js, and MongoDB.

Real Time Chat Application (02/2022 - 02/2022)

- Real-time chat application that provide a multi-user chatting environment.Tech stakes used to develop this application are socket.io and node.js.

Bluetooth Controlled Bot (07/2021 - 07/2021)

- A Robot which is built using Atmega8 Microcontroller in which serial communication is done via Bluetooth and Android Application and programming is done in embedded C language

CERTIFICATES

Embedded and Robotics Workshop (05/2022 - 06/2022)

Build real-time projects in Robotics Automotive and automation domain of your own and get hands-on knowledge about embedded systems and IoT.

Developing Cloud Applications with Node.js and React (06/2021 - 07/2021)

Learn how to develop and deploy web applications with JavaScript frameworks. Create server-side applications using Node.js and develop the front-end using React.

LANGUAGES

Hindi
Full Professional Proficiency

English
Professional Working Proficiency

INTERESTS

Robotics and Automation | Internet of Things | Web Development | Table Tennis | Video Editing

150 Questions: Data structures

Solve and understand these questions, make notes, watch solutions, and have fun. Don't just solve them to get a job, but to learn something new! These are mostly internship-level questions (easy-medium), but will help you in general with problem solving!

Arrays

Easy

- https://leetcode.com/problems/roman-to-integer/
- https://leetcode.com/problems/valid-parentheses/
- https://leetcode.com/problems/remove-duplicates-from-sorted-array/
- https://leetcode.com/problems/remove-element/
- https://leetcode.com/problems/best-time-to-buy-and-sell-stock/
- https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/
- https://leetcode.com/problems/intersection-of-two-arrays-ii/
- https://leetcode.com/problems/single-number/
- https://leetcode.com/problems/contains-duplicate/
- https://leetcode.com/problems/plus-one/
- https://leetcode.com/problems/move-zeroes/
- https://leetcode.com/problems/rotate-image/

Medium

- https://leetcode.com/problems/3sum/
- https://leetcode.com/problems/4sum/
- https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/
- https://leetcode.com/problems/group-anagrams/
- https://leetcode.com/problems/reduce-array-size-to-the-half/
- https://leetcode.com/problems/merge-intervals/

Linked list

Easy

- https://leetcode.com/problems/delete-node-in-a-linked-list/
- https://leetcode.com/problems/remove-nth-node-from-end-of-list/
- https://leetcode.com/problems/merge-two-sorted-lists/
- https://leetcode.com/problems/palindrome-linked-list/
- https://leetcode.com/problems/linked-list-cycle/

Medium

- https://leetcode.com/problems/intersection-of-two-linked-lists/
- https://leetcode.com/problems/remove-linked-list-elements/
- https://leetcode.com/problems/middle-of-the-linked-list/
- https://leetcode.com/problems/merge-k-sorted-lists/

Binary search

Easy

- https://leetcode.com/problems/binary-search/
- https://leetcode.com/problems/intersection-of-two-arrays/
- https://leetcode.com/problems/first-bad-version/
- https://leetcode.com/problems/arranging-coins/
- https://leetcode.com/problems/search-insert-position/

Medium

- https://leetcode.com/problems/search-in-rotated-sorted-array/
- https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/
- https://leetcode.com/problems/kth-smallest-element-in-a-bst/
- https://leetcode.com/problems/find-peak-element/
- https://leetcode.com/problems/split-array-largest-sum/

Sliding window

Read

- Leetcode Pattern 2 | Sliding Windows for Strings | by csgator | Leetcode Patterns

Easy/Medium

- https://leetcode.com/problems/longest-substring-without-repeating-characters/
- https://leetcode.com/problems/find-all-anagrams-in-a-string/description/
- https://leetcode.com/problems/minimum-window-substring/description/
- https://leetcode.com/problems/count-number-of-nice-subarrays/
- https://leetcode.com/problems/fruit-into-baskets/

2 pointers

- https://leetcode.com/problems/intersection-of-two-arrays/
- https://leetcode.com/problems/maximum-ascending-subarray-sum/
- https://leetcode.com/problems/backspace-string-compare/
- https://leetcode.com/problems/long-pressed-name/
- https://leetcode.com/problems/fruit-into-baskets/
- https://leetcode.com/problems/max-consecutive-ones-iii/
- https://leetcode.com/problems/container-with-most-water/

Stacks, Queues

- Easy
- https://leetcode.com/problems/valid-parentheses/
- https://leetcode.com/problems/implement-queue-using-stacks/
- https://leetcode.com/problems/min-stack/

- Medium
- https://leetcode.com/problems/design-circular-queue/
- https://leetcode.com/problems/decode-string/

- https://leetcode.com/problems/open-the-lock/
- https://leetcode.com/problems/daily-temperatures/
- https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/

BFS, DFS

Read

- Leetcode Pattern 1 | BFS + DFS == 25% of the problems — part 1
- Leetcode Pattern 1 | DFS + BFS == 25% of the problems — part 2

Questions

- https://leetcode.com/problems/flood-fill/
- https://leetcode.com/problems/binary-tree-preorder-traversal/
- https://leetcode.com/problems/number-of-islands/
- https://leetcode.com/problems/walls-and-gates/
- https://leetcode.com/problems/max-area-of-island/
- https://leetcode.com/problems/number-of-provinces/
- https://leetcode.com/problems/perfect-squares/
- https://leetcode.com/problems/course-schedule/
- https://www.geeksforgeeks.org/detect-cycle-undirected-graph/
- https://leetcode.com/problems/word-ladder/
- https://leetcode.com/problems/01-matrix/
- https://leetcode.com/problems/rotting-oranges/
- https://leetcode.com/problems/perfect-squares/
- https://leetcode.com/problems/all-paths-from-source-to-target/
- https://leetcode.com/problems/number-of-closed-islands/

Recursion

Easy

- 509. Fibonacci Number
- Reverse String

- 24. Swap Nodes in Pairs
- 206. Reverse Linked List
- Leetcode #700 Search in a Binary Search Tree
- 70. Climbing Stairs
- Leetcode #50 Pow(x, n)

Backtracking

Read

- Leetcode Pattern 3 | Backtracking | by csgator | Leetcode Patterns
- A general approach to backtracking questions in Java (Subsets, Permutations, Combination Sum, Palindrome Partitioning)

Easy

- Word Search
- Leetcode #78 Subsets
- 90. Subsets II
- Letter Case Permutation

Medium

- 39. Combination Sum
- 17. Letter Combinations of a Phone Number
- Combinations
- Leetcode : Combination Sum II
- 216. Combination Sum III
- Combination Sum IV
- 46. Permutations
- 47. Permutations II
- 31. Next Permutation
- 51. N-Queens

Trees

Read

- Leetcode Pattern 0 | Iterative traversals on Trees | by csgator | Leetcode Patterns

Easy

- https://leetcode.com/problems/binary-tree-preorder-traversal/
- https://leetcode.com/problems/binary-tree-inorder-traversal/
- https://leetcode.com/problems/binary-tree-postorder-traversal/
- https://leetcode.com/problems/validate-binary-search-tree/
- https://leetcode.com/problems/minimum-distance-between-bst-nodes/
- https://leetcode.com/problems/symmetric-tree/
- https://leetcode.com/problems/same-tree/
- https://leetcode.com/problems/path-sum/
- https://leetcode.com/problems/maximum-depth-of-binary-tree/
- https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/

- Medium
- https://leetcode.com/problems/validate-binary-search-tree/
- https://leetcode.com/problems/binary-search-tree-iterator/
- https://leetcode.com/problems/unique-binary-search-trees/
- https://leetcode.com/problems/serialize-and-deserialize-bst/
- https://leetcode.com/problems/binary-tree-right-side-view/
- https://leetcode.com/problems/binary-tree-level-order-traversal/
- https://leetcode.com/problems/binary-tree-level-order-traversal-ii/
- https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/

Dynamic programming

Easy

- https://leetcode.com/problems/maximum-subarray/

- https://leetcode.com/problems/fibonacci-number/
- https://leetcode.com/problems/climbing-stairs/
- https://leetcode.com/problems/min-cost-climbing-stairs/
- https://leetcode.com/problems/n-th-tribonacci-number/

Medium

- https://leetcode.com/problems/coin-change/
- https://leetcode.com/problems/minimum-falling-path-sum/
- https://leetcode.com/problems/minimum-cost-for-tickets/
- https://leetcode.com/problems/2-keys-keyboard/
- https://leetcode.com/problems/maximum-product-subarray/
- https://leetcode.com/problems/triangle/
- https://leetcode.com/problems/ones-and-zeroes/
- https://leetcode.com/problems/longest-arithmetic-subsequence/
- https://leetcode.com/problems/partition-equal-subset-sum/
- https://leetcode.com/problems/house-robber/
- https://leetcode.com/problems/decode-ways/
- https://leetcode.com/problems/word-break/
- https://leetcode.com/problems/edit-distance/
- https://leetcode.com/problems/longest-increasing-subsequence/

Graphs

Easy

- https://leetcode.com/problems/employee-importance/
- https://leetcode.com/problems/find-the-town-judge/

Medium

- https://leetcode.com/problems/course-schedule-ii/
- https://leetcode.com/problems/redundant-connection/
- https://leetcode.com/problems/surrounded-regions/
- https://leetcode.com/problems/accounts-merge/

- https://leetcode.com/problems/network-delay-time/
- https://leetcode.com/problems/is-graph-bipartite/
- https://leetcode.com/problems/find-eventual-safe-states/
- https://leetcode.com/problems/keys-and-rooms/
- https://leetcode.com/problems/possible-bipartition/
- https://leetcode.com/problems/most-stones-removed-with-same-row-or-column/
- https://leetcode.com/problems/rotting-oranges/
- https://leetcode.com/problems/number-of-operations-to-make-network-connected/

Additional questions

- https://leetcode.com/problems/longest-common-prefix/
- https://leetcode.com/problems/implement-trie-prefix-tree/

Random

- https://leetcode.com/explore/

Videos

Some long videos, to revise or study in one long stretch!

- Data Structures Easy to Advanced Course - Full Tutorial from a Google Engineer
- Introduction to Data Structures & Algorithms | Course Details & Prerequisites
- Algorithms Course - Graph Theory Tutorial from a Google Engineer